

THE EFFECT OF USING GROUP INVESTIGATION MODEL TOWARDS
STUDENTS' LEARNING ACHIEVEMENT OF SMK NEGERI 1 PURWOREJO
FOR ARC WELDING TECHNIQUES IN DAMAGE LEARNING
DISCUSSION OF IN THE ACADEMIC YEAR OF 2011/2012

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ABSTRACT

This study was aimed to determine student achievement in learning the basic arc welding that uses a learning model group investigation, to find the difference learning achievement and classroom control classroom learning model experimentally by investigation group on learning basic welding arc welding defect discussion, to know the dynamics of learning in the classroom learning model that uses group investigation.

The method was type of quasi-experiment design with nonequivalent control group design. The study was conducted at SMK Negeri 1 Purworejo with Mechanical Machining class XI B (XI TPB) catagorized as an experimental class and class XI Machining Techniques A (XI TPA) catagorized as a control class. Class XI TPB catagorized as an experimental class were being subjected to investigation using the model of group learning in teaching and learning activities, while the class XI TPA as control class still used conventional learning models in teaching and learning activities.

Learning achievement of the experimental class that uses a learning model group investigation obtains good results. Learning achievement can be seen by the acquisition score of the average grade 77.5. Mode of the data is 78. Mean of the data is 78. The highest score is 84, while the lowest score is 72. There are significant differences between classroom learning outcomes of experimental class using the model of group learning investigation with a control class using conventional learning models. Learning achievement differences in those two classes is viewed from the achievement of the average grade in the experimental class is higher than the average grade in the control class. Learning with the group investigation model looks more dynamic, it can be seen at the time of presentation activities. The dynamics of students grouping is that they can interact with each other's, carry out activities together, build their personal habits to improve the quality of cooperation, consensus building, building self-reliance to develop concepts, refine the concept through the interaction of mind so that quality improvement proceeds of quality improvement in conditions on the strength of dynamic interdependent thoughts together.

Keywords: Achievement, Group Investigation, Basic Arc Welding